We claim:

- 1. A compound which is a crystalline Form Z of rabeprazole sodium.
- 2. The compound of claim 1 having an X-ray diffraction pattern, expressed in terms of 2 theta angles, that includes four or more peaks selected from the group consisting of 4.69 ±0.09, 9.07±0.09, 9.42±0.09, 11.25±0.09, 14.71±0.09, 16.24±0.09, 17.26±0.09, 18.52±0.09, 18.52±0.09, 19.32±0.09, 19.63±0.09, 19.92±0.09, 20.80±0.09, 21.48±0.09, 23.07±0.09, 24.81±0.09, 25.70±0.09, 27.47±0.09, 30.01±0.09, 30.65±0.09, 33.37±0.09, and 36.95±0.09.
- 3. The compound of claim 2 having an X-ray diffraction pattern expressed in terms of 2 theta angles and obtained with a diffractometer equipped with a Cu K alpha-1 radiation source, wherein said X-ray powder diffraction pattern includes five or more peaks selected from the group consisting of peaks with 2 theta angles of about 4.694, 9.070, 9.417, 11.254, 14.712, 16.241, 17.264, 18.522, 18.522, 19.320, 19.626, 19.920, 20.802, 21.477, 23.073, 24.814, 25.702, 27.470, 30.009, 30.653, 33.365, and 36.950.
- 4. The compound of claim 1, having substantially the same X-ray diffraction pattern as shown in Figure 1.
- 5. The compound of claim 1, which has an endo-exo pattern with identified peaks of about 106.5 °C and 228.8 °C in its differential scanning calorimetry thermogram.
- 6. A composition comprising rabeprazole sodium as a solid, wherein at least 80 % by weight of said sold rabeprazole sodium is a crystalline Form Z of rabeprazole sodium.

- 7. The composition of claim 6, wherein at least 90 % by weight of said solid rabeprazole sodium is the crystalline Form Z.
- 8. The composition of claim 6, wherein at least 95 % by weight of said solid rabeprazole sodium is the crystalline Form Z.
- 9. The composition of claim 6, wherein at least 99 % by weight of said solid rabeprazole sodium is the crystalline Form Z.
- 10. The composition of claim 6, wherein said rabeprazole sodium is substantially free of amorphous form, Crystal II, Form X and Form Y of rabeprazole sodium.
- 11. A pharmaceutical composition comprising a prophylactically or therapeutically effective amount of the compound of claim 1 and one or more pharmaceutically acceptable excipients.
- 12. The pharmaceutical composition of claim 11, wherein said composition is a solid dosage form for oral administration.
- 13. The pharmaceutical composition of claim 11, wherein said dosage form is a tablet.
- 14. A pharmaceutical composition comprising a prophylactically or therapeutically effective amount of the compound of claim 1, one or more pharmaceutically acceptable excipients, and one or more antimicrobial compounds.
- 15. The pharmaceutical composition of claim 14, wherein said antimicrobial compound is selected from a group consisting of penicillins including benzylpenicillin, phenoxymethylpenicillin, propicillin, azidicillin, dicioxacillin, flucloxacillin, oxacillin, amoxicillin, bacampicillin, ampicillin, meziocillin, piperacillin, or aziocillin; cephalosporins including cefadroxil, cefaclor, cefalexin,

cefalexim, cefuroxim, cefetamet, cefadroxil, ceftibuten, cefpodoxim, cefotetan, cefazolin, cefoperazon, ceftizoxim, ceftaxim, ceftazidim, cefamandol, cefepim, cefoxitin, cefodizim, cefsulodin, ceftriaxon, cefotiam, or cefmenoxim; aztreonam; loracarbef; meropenem; sulbactam; tetracyclines including tetracycline, oxytetracycline, minocycline, or doxycycline; aminoglycosides including tobramycin, gentamicin, neomycin, streptomycin, amikacin, netilmicin, paromomycin or spectinomycin; amphericols including chloramphenicol or thiamphenicol; lincomycins; clindamycin; lincomycin; erythromycin; clarithromycin; spiramycin; roxithromycin; azithromycin; collstin; polymixin B; teioplanin; vancomycin; norfloxacin; cinoxacin; ciprofloxacin; pipemidic acid; enoxacin; nalidixie acid; pefloxacin; fieroxacin; ofloxacin; metronidazole; fomycin; fucidic acid; taurolidine; taurultam; and mixtures thereof.

- 16. A method of preventing or treating a disease that is associated with excess gastric acid secretion, comprising administering to a patient in need of said prevention or treatment an effective amount of the compound of claim 1.
- 17. The method of claim 16, wherein said disease is an ulcer, gastroesophageal reflux disease, psoriasis or Zollinger-Eliison Syndrome.
- 18. A process for making a crystalline Form Z of rabeprazole sodium, wherein said process comprising:
 - a. providing rabeprazole sodium in an aromatic hydrocarbon solvent;
 - b. heating said aromatic hydrocarbon solvent to reflux; and
 - c. cooling said solvent until a solid mass separates which is crystalline Form
 Z of rabeprazole sodium.

- 19. The process of claim 18, wherein said starting rabeprazole sodium is a crystalline form, an amorphous form or a mixture thereof.
- 20. The process of claim 18, wherein said aromatic hydrocarbon solvent is toluene, xylenes or mixtures thereof.
- 21. The process of claim 18, wherein said aromatic hydrocarbon solvent is toluene.
- 22. The process of claim 18, wherein said rabeprazole is provided in said aromatic hydrocarbon solvent in a ratio between about 1:3 and about 1:20.
- 23. The process of claim 22, wherein said ratio is between about 1:3 and about 1:10.
- 24. The process of claim 22, wherein said ratio is about 1:4.
- 25. A crystalline Form Z of rabeprazole sodium, which is prepared according to the process of claim 18.